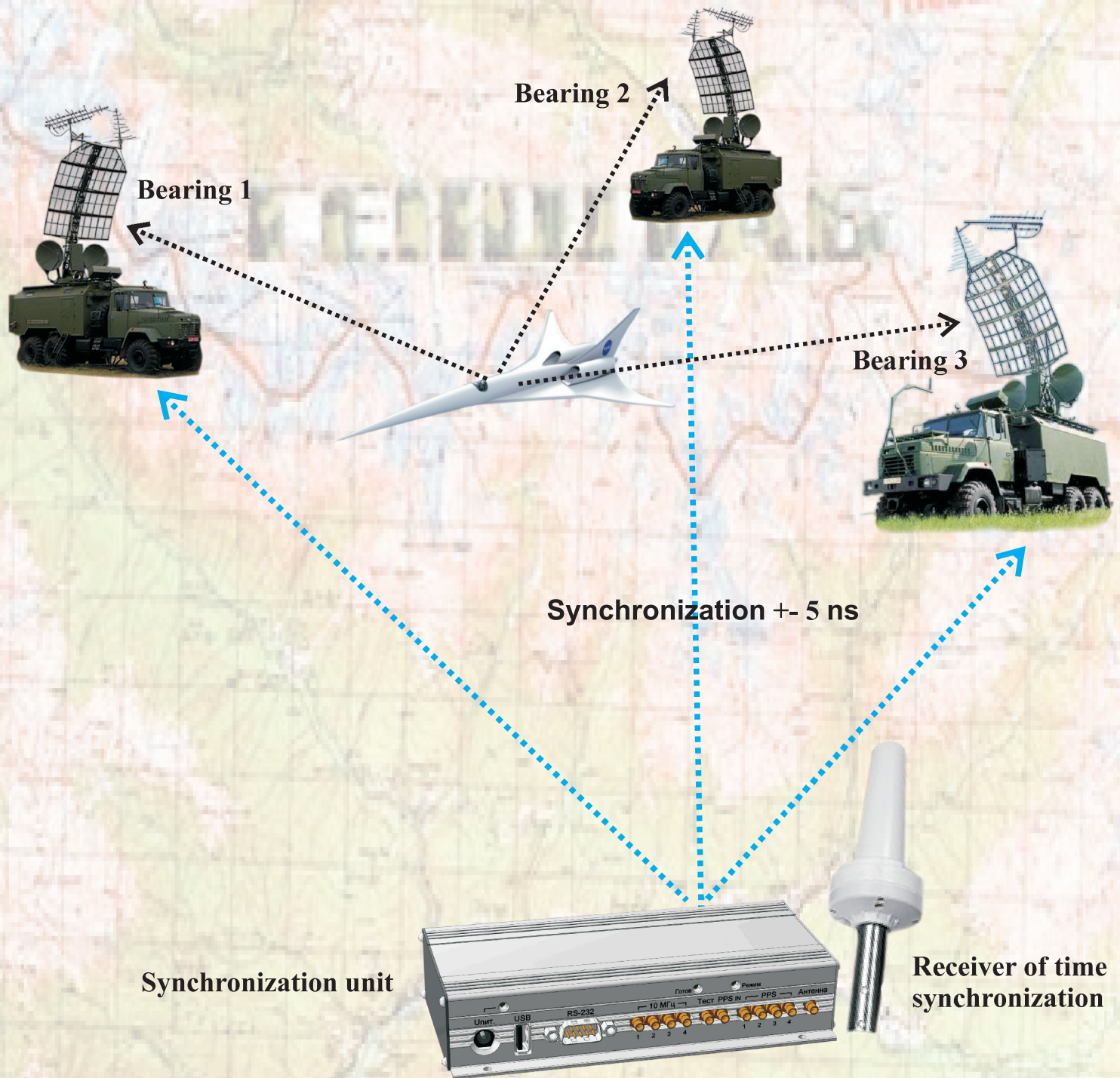


# Equipment of synchronization CH-5832



## New possibilities of passive radar

The CH-5832 generates a 1PPS signal, which enables them to synchronize the process of taking measurements by passive radars that are spaced apart at distances of tens of kilometers. Component error in determining the coordinates of the target due to synchronization does not exceed 1.5 m.

# CH-5832

## Application:

- formation of a highly stable ( $5 \cdot 10^{-13}$ ) reference frequency of 10 MHz;
- synchronization of processes in spaced objects in space, with a non-synchronicity of no more than  $\pm 5$  ns.

## Specification:

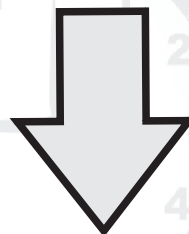
- 1 Navigation signalls - GPS L1, GLONASS L1;
- 2 Relative deviation of 10 MHz in "Saving" mode (without reception of satellite signals) for 24 h, no more  $6 \cdot 10^{-13}$
- 3 The average daily deviation of the frequency is not more than  $6,5 \cdot 10^{-13}$
- 4 Average relative frequency deviation (deviation of Allan) for 1 s, no more  $10^{-11}$
- 5 Average relative frequency deviation (deviation of Allan) for 10 s, no more  $2 \cdot 10^{-11}$
- 6 Spectral density of the phase noise of the output signal, dB / Hz at the detuning 100 Hz - -135  
detuning 1 kHz - -145  
detuning 10 kHz - -150  
detuning 100 kHz - -155
- 7 Average deviation the front of the signal 1PPS ( $3\sigma$ ) 5 ns;
- 8 Supply voltage 12V, power supply, no more 15 W;
- 9 Dimentions of synchronization unit 182\*90\*35 mm, receiver of time synchronization  $\varnothing 74 \cdot 174$ ;
- 10 Mass of synchronization unit 0,45 kg, receiver of time synchronization 0,2 kg.



Atomic clock

Instability of frequency

$10^{-17}$



CH-5832 Instability of frequency  $5 \cdot 10^{-13}$

